

**Commonwealth of Kentucky**  
**Natural Resources and Environmental Protection Cabinet**  
**Department for Environmental Protection**  
**Division for Air Quality**  
**803 Schenkel Lane**  
**Frankfort, Kentucky 40601**  
**(502) 573-3382**

**AIR QUALITY PERMIT**

**Permittee Name:** GE Industrial Control Systems  
**Mailing Address:** 3301 Old Hartford Road, Owensboro, Kentucky 42303

**Source Name:** GE Industrial Control Systems -  
Owensboro small motors plant  
**Mailing Address:** 3301 Old Hartford Road, Owensboro, Kentucky 42303

**Source Location:** Same as above  
**Permit Type:** Federally-Enforceable  
**Review Type:** Title V  
**Permit Number:** V-98-018  
**Log Number:** F443  
**Application**  
**Complete Date:** February 9, 1998  
**KYEIS #:** 077-0920-0071  
**AFS Plant ID #:** 21-059-00071  
**SIC Code:** 3621

**Region:** Evansville (Indiana) - Owensboro - Henderson (Kentucky)  
**County:** Daviess

**Issuance Date:**  
**Expiration Date:**

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**John E. Hornback, Director**  
**Division for Air Quality**

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## **SECTION A - PERMIT AUTHORIZATION**

Pursuant to a duly submitted application which was determined to be complete on February 9, 1998, the Kentucky Division for Air Quality hereby authorizes the operation of the processing and air pollution control equipment described herein in accordance with the terms and conditions of this permit. This draft permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any emissions units without first having submitted a complete application and receiving a permit for the planned activity from the permitting authority, except as provided in this permit or in Regulation 401 KAR 50:035, Permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet or any other federal, state, or local agency.

## **SECTION B -EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**

### **Emissions Unit: 01 (VO-1) - 300 Line Polyester Resin Application to Motor Stators**

#### **Description:**

Construction commenced: August 1, 1977

#### **Equipment Includes:**

02-6A - 300 line polyester varnish dip tank  
06-7 - 300 line polyester varnish bake oven  
41 - 300 line rework oven

#### **Material:**

Stator assemblies  
Polyester resin  
Solvent (non-HAP VOC)  
Inhibitor

#### **Maximum input:**

3.0 units/hour  
17.70 pounds/hour  
0.046 pounds/hour  
0.013 pound/hour

#### **Applicable Regulations:**

Regulation 401 KAR 61:060, Existing sources using organic solvents, for unit located in a Priority III Region for photochemical oxidants which commenced before June 29, 1979 but on or after April 9, 1972.

#### **1. Operating Limitations:**

None

#### **2. Emission Limitations:**

- a) Pursuant to Regulation 401 KAR 61:060, Section 3(1), no person shall discharge into the open air, from any emissions unit using organic solvents more than forty (40) pounds of organic material in any one (1) day, nor eight (8) pounds in any one (1) hour.

Compliance with the volatile organic compound (VOC) pounds per hour emission limitation may be assured as follows: [the pounds per hour of resin used/purchased x the weight fraction of VOC per supplier data + the pounds per hour solvent used + the pounds per hour inhibitor used] - [pounds per hour varnish (resin, solvent, inhibitor) recovered x weight fraction of VOC (per test)].

Compliance with the volatile organic compound (VOC) pounds per day emission limitation may be assured as follows: [the pounds per day of resin used/purchased x the weight fraction of VOC per supplier data + the pounds per day solvent used + the pounds per day inhibitor used] - [pounds per day varnish (resin, solvent, inhibitor) recovered x weight fraction of VOC (per test)].

**SECTION B -EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS****3. Testing Requirements:**

The permittee shall accurately test the volatile organic compound content, using Reference Method 24 or an approved alternative, of the recovered varnish pumped into waste drums initially within one month after issuance of this permit and upon switching to another varnish product at any time thereafter in order to assure compliance with the recordkeeping requirements and with 401 KAR 61:060.

**4. Specific Monitoring Requirements:**

See Subsection 5, Record Keeping Requirements.

**5. Specific Record Keeping Requirements:**

a) The permittee shall maintain a file including monthly varnish (resin, solvent, inhibitor) processed/purchased, volatile organic compound weight fraction, and density, and monthly varnish recovered and collected in hazardous waste drums with volatile organic compound weight fraction (in recovered varnish per test) and density; and daily hours of operation, to assure compliance with Regulation 401 KAR 61:060.

b) Pursuant to Regulation 401 KAR 61:060, any person using organic solvents or any material containing organic solvents shall supply the Division, upon request and in the manner and form prescribed, written evidence of the chemical composition, physical properties, and amount consumed for each organic solvent and/or organic solvent containing material used.

**6. Specific Reporting Requirements:**

See Section F.

**7. Specific Control Equipment Operating Conditions:**

NA

**8. State-Origin Requirements:****a) Operating Limitations:**

NA

**b) Emission Limitations:**

NA

**9. Alternate Operating Scenarios:**

NA

**10. Compliance Schedule**

NA

**11. Compliance Certification Requirements**

See Section F.

## **SECTION B -EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**

### **Emissions Unit: 02 (VO-2) - 400/500 Line Polyester Resin Application to Motor Stators**

#### **Description:**

Construction commenced: August 1, 1977

#### **Equipment Includes:**

02-6B - 400/500 line polyester varnish dip tank  
06-8 - 400/500 line polyester varnish bake oven  
06-8A - 400/500 line polyester varnish bake oven  
6-10 - East rework oven, and 10-22 - West rework oven

#### **Material:**

Stator assemblies  
Polyester resin  
Solvent (non-HAP VOC)  
Inhibitor

#### **Maximum input:**

2.0 units/hour  
52.2 pounds/hour  
0.24 pounds/hour  
0.066 pound/hour

#### **Applicable Regulations:**

Regulation 401 KAR 61:060, Existing sources using organic solvents, for unit located in a Priority III Region for photochemical oxidants which commenced before June 29, 1979 but on or after April 9, 1972.

#### **1. Operating Limitations:**

None

#### **2. Emission Limitations:**

- a) Pursuant to Regulation 401 KAR 61:060, Section 3(1), no person shall discharge into the open air, from any emissions unit using organic solvents more than forty (40) pounds of organic material in any one (1) day, nor eight (8) pounds in any one (1) hour.

Compliance with the volatile organic compound (VOC) pounds per hour emission limitation may be assured as follows: [the pounds per hour of resin used/purchased x the weight fraction of VOC per supplier data + the pounds per hour solvent used + the pounds per hour inhibitor used] - [pounds per hour varnish (resin, solvent, inhibitor) recovered x weight fraction of VOC (per test)].

Compliance with the volatile organic compound (VOC) pounds per day emission limitation may be assured as follows: [the pounds per day of resin used/purchased x the weight fraction of VOC per supplier data + the pounds per day solvent used + the pounds per day inhibitor used] - [pounds per day varnish (resin, solvent, inhibitor) recovered x weight fraction VOC (per test)].

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS****3. Testing Requirements:**

The permittee shall accurately test the volatile organic compound content, using Reference Method 24 or an approved alternative, of the recovered varnish pumped into waste drums initially within one month after issuance of this permit and upon switching to another varnish product at any time thereafter in order to assure compliance with the recordkeeping requirements and with 401 KAR 61:060.

**4. Specific Monitoring Requirements:**

See Subsection 5, Record Keeping Requirements.

**5. Specific Record Keeping Requirements:**

- a) The permittee shall maintain a file including monthly varnish (resin, solvent, inhibitor) processed/purchased, volatile organic compound weight fraction, and density, and monthly varnish recovered and collected in hazardous waste drums with volatile organic compound weight fraction (in recovered varnish per test) and density; and daily hours of operation, to assure compliance with Regulation 401 KAR 61:060.
- b) Pursuant to Regulation 401 KAR 61:060, any person using organic solvents or any material containing organic solvents shall supply the Division, upon request and in the manner and form prescribed, written evidence of the chemical composition, physical properties, and amount consumed for each organic solvent and/or organic solvent containing material used.

**6. Specific Reporting Requirements:**

See Section F.

**7. Specific Control Equipment Operating Conditions:**

NA

**8. State-Origin Requirements:****a) Operating Limitations:**

NA

**b) Emission Limitations:**

NA

**9. Alternate Operating Scenarios:**

NA

**10. Compliance Schedule**

NA

**11. Compliance Certification Requirements**

See Section F.

## SECTION B -EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

**Emissions Unit: 03 (VO-3) - 400/500 Line Epoxy Resin Application to Motor Stators**

### **Description:**

Construction commenced: 1979

### **Equipment Includes:**

02-6C - 500 line epoxy varnish dip tank  
 10-20 - 500 line epoxy varnish bake oven  
 10-21 - 500 line epoxy varnish bake oven  
 -- - 500 line epoxy rework oven

### **Material:**

Stator assemblies

Epoxy resin

### **Maximum input:**

10.000 units/day

20.945 pounds/hour

### **Applicable Regulations:**

Regulation 401 KAR 61:060, Existing sources using organic solvents, for unit located in a Priority III Region for photochemical oxidants which commenced before June 29, 1979 but on or after April 9, 1972.

#### **1. Operating Limitations:**

None

#### **2. Emission Limitations:**

- a) Pursuant to Regulation 401 KAR 61:060, Section 3(1), no person shall discharge into the open air, from any emissions unit using organic solvents more than forty (40) pounds of organic material in any one (1) day, nor eight (8) pounds in any one (1) hour.

Compliance with the volatile organic compound (VOC) pounds per hour emission limitation may be assured as follows: [the pounds per hour of resin used/purchased x the weight fraction of VOC per supplier data + the pounds per hour solvent used + the pounds per hour inhibitor used] - [pounds per hour varnish (resin, solvent, inhibitor) recovered x weight fraction of VOC (per test)].

Compliance with the volatile organic compound (VOC) pounds per day emission limitation may be assured as follows: [the pounds per day of resin used/purchased x the weight fraction of VOC per supplier data + the pounds per day solvent used + the pounds per day inhibitor used] - [pounds per day varnish (resin, solvent, inhibitor) recovered x weight fraction of VOC (per test)].



**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS****3. Testing Requirements:**

The permittee shall accurately test the volatile organic compound content, using Reference Method 24 or an approved alternative, of the recovered varnish pumped into waste drums initially within one month after issuance of this permit and upon switching to another varnish product at any time thereafter in order to assure compliance with the recordkeeping requirements and with 401 KAR 61:060.

**4. Specific Monitoring Requirements:**

See Subsection 5, Record Keeping Requirements.

**5. Specific Record Keeping Requirements:**

a) The permittee shall maintain a file including monthly varnish (resin, solvent, inhibitor) processed/purchased, volatile organic compound weight fraction, and density, and monthly varnish recovered and collected in hazardous waste drums with volatile organic compound weight fraction (in recovered varnish per test) and density; and daily hours of operation, to assure compliance with Regulation 401 KAR 61:060.

b) Pursuant to Regulation 401 KAR 61:060, any person using organic solvents or any material containing organic solvents shall supply the Division, upon request and in the manner and form prescribed, written evidence of the chemical composition, physical properties, and amount consumed for each organic solvent and/or organic solvent containing material used.

**6. Specific Reporting Requirements:**

See Section F.

**7. Specific Control Equipment Operating Conditions:**

NA

**8. State-Origin Requirements:****a) Operating Limitations:**

NA

**b) Emission Limitations:**

NA

**9. Alternate Operating Scenarios:**

NA

**10. Compliance Schedule**

NA

**11. Compliance Certification Requirements**

See Section F.

## **SECTION B -EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**

### **Emissions Units: 05 (04-3A, 04-3B) - Two Spray Paint Booths with Disposable Dry Filters**

#### **Description:**

Construction commenced: 1977

#### **Equipment Includes:**

04-3A - 300 line spray paint booth with application of coatings and solvents, equipped with disposable dry filters for particulates control

04-3B - 400/500 line spray paint booth with application of coatings and solvents, equipped with disposable dry filters for particulates control

#### **Material:**

Coating/Solvent  
Thinner

#### **Maximum input (for EACH paint booth):**

1.3 gallons/hour and 6.8 gallons/day  
0.22 gallons/hour and 1.2 gallons/day

#### **Applicable Regulations:**

Regulation 401 KAR 61:060, Existing sources using organic solvents, for units located in a Priority III Region for photochemical oxidants which commenced before June 29, 1979 but on or after April 9, 1972, and

Regulation 401 KAR 59:010, New process operations, for units commenced on or after July 2, 1975.

#### **1. Operating Limitations:**

None

#### **2. Emission Limitations:**

- a) Pursuant to Regulation 401 KAR 61:060, Section 3(1), no person shall discharge into the open air, from any emissions unit (each paint booth) using organic solvents more than forty (40) pounds of organic material in any one (1) day, nor eight (8) pounds in any one (1) hour.

Compliance with the volatile organic compound (VOC) pounds per hour emission limitation may be assured as follows for each paint booth: [the gallons/hour coating/solvent x coating/solvent density in pounds/gallon x (percent organic content/100) + gallons/hour thinner x thinner density in pounds/gallon x (percent organic content/100)].

Compliance with the volatile organic compound (VOC) pounds per day emission limitation may be assured as follows for each paint booth: [the gallons/day coating/solvent x coating/solvent density in pounds/gallon x (percent organic content/100) + gallons/day thinner x thinner density in pounds/gallon x (percent organic content/100)].

**SECTION B -EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS****2. Emission Limitations continued:**

b) Pursuant to Regulation 401 KAR 59:010, Section 3(2), particulate matter emissions into the open air shall not exceed 2.34 pounds per hour for each paint booth based on a three-hour average. The permittee may assure compliance with the particulate mass emissions allowable by calculating emissions for each paint booth using the following material balance: [ the gallons/hour coating/solvent x coating/solvent density in pounds/gallon x (percent solid content/100) + gallons/hour thinner x thinner density in pounds/gallon x (percent solid content/100)] x (1 - transfer efficiency/100) x (1 - control efficiency/100).

c) Pursuant to Regulation 401 KAR 59:010, Section 3(1)(a), any continuous emission(s) into the open air from each paint booth shall not equal or exceed twenty (20) percent opacity based on a six-minute average.

**3. Testing Requirements:**

The permittee shall determine opacity of emissions from each stack by EPA Reference Method 9 annually, or more frequently if requested by the Division.

**4. Specific Monitoring Requirements:**

a) The permittee shall perform a qualitative visual observation of the opacity of emissions from each stack on a weekly basis and maintain a log of the observations. If visible emissions from any stack are perceived or believed to exceed the applicable standard, the permittee shall determine the opacity of emissions by Reference Method 9 and instigate an inspection of the control equipment making any necessary repairs.

b) The permittee shall monitor the processing rates for each paint booth and hours of operation.

c) See Subsection 5, Record Keeping Requirements.

**5. Specific Record Keeping Requirements:**

a) The permittee shall maintain a file including monthly solvent, coating, and thinner processed (gallons) and volatile organic compound percent or weight fraction content, and percent or weight fraction solids content, densities of coatings and solvents and thinners, estimated transfer efficiency and control efficiency for particulate filters per manufacturer's specifications, and daily hours of operation, to assure compliance with Regulations 401 KAR 61:060 and 401 KAR 59:010.

b) Pursuant to Regulation 401 KAR 61:060, any person using organic solvents or any material containing organic solvents shall supply the Division, upon request and in the manner and form prescribed, written evidence of the chemical composition, physical properties, and amount consumed for each organic solvent and/or organic solvent containing material used.

c) Records documenting the results of each opacity reading by EPA Reference Method 9 shall be maintained.

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**

**6. Specific Reporting Requirements:**

See Section F.

**7. Specific Control Equipment Operating Conditions:**

a) The dry filters for both paint booths shall be operated as necessary to maintain compliance with permitted emission limitations, in accordance with manufacturer's specifications and/or standard operating practices.

b) Records regarding the maintenance (regularly changing and maintaining disposable filters) and operation of all control equipment in Subsection 7(a) shall be maintained.

c) See Section E for further requirements.

**8. State-Origin Requirements:**

**Applicable Regulations:**

NA

**a) Operating Limitations:**

NA

**b) Emission Limitations:**

NA

**9. Alternate Operating Scenarios:**

NA

**10. Compliance Schedule**

NA

**11. Compliance Certification Requirements**

See Section F.

## **SECTION B -EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**

### **Emissions Unit: 07 (04-4) - Spray Paint Booth with Disposable Dry Filters**

#### **Description:**

Construction commenced: 1990

#### **Equipment Includes:**

04-4 - Modification shop paint booth with application of coating and solvents, equipped with disposable dry filters for particulates control

#### **Material:**

Coating/Solvent  
Thinner

#### **Maximum input:**

1.3 gallons/hour and 6.8 gallons/day  
0.22 gallon/hour and 1.2 gallons/day

#### **Applicable Regulations:**

Regulation 401 KAR 59:010, New process operations, for units commenced on or after July 2, 1975.

#### **1. Operating Limitations:**

None

#### **2. Emission Limitations:**

a) Pursuant to Regulation 401 KAR 59:010, Section 3(2), particulate matter emissions into the open air shall not exceed 2.34 pounds per hour for the paint booth based on a three-hour average. The permittee may assure compliance with the particulate mass emissions allowable by calculating emissions for the paint booth using the following material balance: [ the gallons/hour coating/solvent x coating/solvent density in pounds/gallon x (percent solid content/100) + gallons/hour thinner x thinner density in pounds/gallon x (percent solid content/100)] x (1 - transfer efficiency/100) x (1 - control efficiency/100).

b) Pursuant to Regulation 401 KAR 59:010, Section 3(1)(a), any continuous emission(s) into the open air from the paint booth shall not equal or exceed twenty (20) percent opacity based on a six-minute average.

#### **3. Testing Requirements:**

The permittee shall determine opacity of emissions from each stack by EPA Reference Method 9 annually, or more frequently if requested by the Division.

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**

### **4. Specific Monitoring Requirements:**

- a) The permittee shall perform a qualitative visual observation of the opacity of emissions from each stack on a weekly basis and maintain a log of the observations. If visible emissions from any stack are perceived or believed to exceed the applicable standard, the permittee shall determine the opacity of emissions by Reference Method 9 and instigate an inspection of the control equipment making any necessary repairs.
- b) The permittee shall monitor the processing rates for the paint booth and hours of operation.
- c) See Subsection 5, Record Keeping Requirements.

### **5. Specific Record Keeping Requirements:**

- a) The permittee shall maintain a file including monthly solvent, coating, and thinner processed (gallons) and volatile organic compound percent or weight fraction content, and percent or weight fraction solids content, densities of coatings and solvents and thinners, estimated transfer efficiency and control efficiency for particulate filters per manufacturer's specifications, and daily hours of operation, to assure compliance with Regulation 401 KAR 59:010 (and for emissions inventory regarding volatile organic compounds).
- b) Records documenting the results of each opacity reading by EPA Reference Method 9 shall be maintained.

### **6. Specific Reporting Requirements:**

See Section F.

### **7. Specific Control Equipment Operating Conditions:**

- a) The dry filters for the paint booth shall be operated as necessary to maintain compliance with permitted emission limitations, in accordance with manufacturer's specifications and/or standard operating practices.
- b) Records regarding the maintenance (regularly changing and maintaining disposable filters) and operation of all control equipment in Subsection 7(a) shall be maintained.
- c) See Section E for further requirements.

### **8. State-Origin Requirements:**

#### **Applicable Regulations:**

NA

#### **a) Operating Limitations:**

NA

#### **b) Emission Limitations:**

NA

**SECTION B -EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**

9. **Alternate Operating Scenarios:**  
NA
10. **Compliance Schedule**  
NA
11. **Compliance Certification Requirements**  
See Section F.

## **SECTION B -EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**

**Emissions Unit: 09 (GPA-01) - Glyptal Coating and Miscellaneous Coating Operations for Motor Rotors, Motor Stators, and Other Motor Areas**

### **Description:**

Construction commenced: 1977

Equipment Includes: Mixing stations, four application stations for glyptal paints and solvents applied to motor rotors, motor stators, and other motor areas

Includes: miscellaneous touch up and maintenance painting subject to 401 KAR 61:060 and 401 KAR 63:010.

### **Material:**

Glyptal Coating/Solvent  
Thinner

### **Maximum input:**

0.17 gallon/hour  
0.03 gallon/hour

### **Applicable Regulations:**

Regulation 401 KAR 61:060, Existing sources using organic solvents, for unit located in a Priority III Region for photochemical oxidants which commenced before June 29, 1979 but on or after April 9, 1972, and

Regulation 401 KAR 63:010, Fugitive emissions.

### **Applicable Requirements Pursuant to Regulation 401 KAR 63:010:**

a) Pursuant to Regulation 401 KAR 63:010, Section 3, reasonable precautions shall be taken to prevent particulate matter from becoming airborne.

b) Pursuant to Regulation 401 KAR 63:010, Section 3, discharge of visible fugitive dust emissions beyond the property line is prohibited.

### **1. Operating Limitations:**

None

### **2. Emission Limitations:**

a) Pursuant to Regulation 401 KAR 61:060, Section 3(1), no person shall discharge into the open air, from any emissions unit using organic solvents more than forty (40) pounds of organic material in any one (1) day, nor eight (8) pounds in any one (1) hour.



**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS****2. Emission Limitations continued:**

a) (Continued)

Compliance with the volatile organic compound (VOC) pounds per hour emission limitation may be assured as follows for the paint operation: [the gallons/hour coating/solvent x coating/solvent density in pounds/gallon x (percent organic content/100) + gallons/hour thinner x thinner density in pounds/gallon x (percent organic content/100)].

Compliance with the volatile organic compound (VOC) pounds per day emission limitation may be assured as follows for the paint operation: [the gallons/day coating/solvent x coating/solvent density in pounds/gallon x (percent organic content/100) + gallons/day thinner x thinner density in pounds/gallon x (percent organic content/100)].

**3. Testing Requirements:**

None

**4. Specific Monitoring Requirements:**

a) The permittee shall monitor the processing rates for the paint operation and hours of operation.

b) See Subsection 5, Record Keeping Requirements.

**5. Specific Record Keeping Requirements:**

a) The permittee shall maintain a file including monthly solvent, coating, and thinner processed (gallons) and volatile organic compound percent or weight fraction content, and percent or weight fraction solids content, densities of coatings and solvents and thinners, and daily hours of operation, to assure compliance with Regulation 401 KAR 61:060.

b) Pursuant to Regulation 401 KAR 61:060, any person using organic solvents or any material containing organic solvents shall supply the Division, upon request and in the manner and form prescribed, written evidence of the chemical composition, physical properties, and amount consumed for each organic solvent and/or organic solvent containing material used.

**6. Specific Reporting Requirements:**

See Section F.

**7. Specific Control Equipment Operating Conditions:**

a) Particulate emissions shall be controlled as necessary to comply with Regulation 401 KAR 63:010.

b) See Section E.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**

8. **State-Origin Requirements:**  
**Applicable Regulations:**  
NA
- a) **Operating Limitations:**  
NA
- b) **Emission Limitations:**  
NA
9. **Alternate Operating Scenarios:**  
NA
10. **Compliance Schedule**  
NA
11. **Compliance Certification Requirements**  
See Section F.

**SECTION C - INSIGNIFICANT ACTIVITIES**

The following listed activities have been determined to be insignificant activities for this source pursuant to Regulation 401 KAR 50:035, Section 5(4). While these activities are designated as insignificant, the permittee must comply with the applicable regulations. Process and emission control equipment at each insignificant activity subject to a generally applicable regulation shall be inspected weekly and a qualitative visible emissions evaluation made. The results of the inspections and observations shall be recorded in a log, noting color, duration, density, (heavy or light), cause and any corrective actions taken for any abnormal visible emissions.

<u>Description</u>	<u>Generally Applicable Regulation</u>
1. 300 stator preheat oven 2.5 units/hr	
2. Roller hearth anneal furnace - 0.54 MMBTU/hour	401 KAR 59:010
3. Batch anneal furnace - electric 4000 CF/hour	401 KAR 59:010
4. THT pressure cast (rotor stacks at 4700 lbs/hour)	401 KAR 59:010
5. Welding stations (approximately 10 rods/hour)	401 KAR 59:010
6. Alloy casters 1.3 and 1.2 MMBTU/hour	401 KAR 59:010
7. Spin die casters	401 KAR 59:010
8. 400 enshield washer - maximum is 7 units/hour	401 KAR 59:010
9. Sandblast and abrasive treat @ 900 cfm	401 KAR 59:010
10. Model 610 cleaner and boiler (0.5 MMBTU/hour)	401 KAR 59:010
11. 300 endshield washer (0.8 MMBTU/hour)	401 KAR 59:010
12. 300 frame washer - electric, rated at max 5 units/hour	401 KAR 59:010
13. Small frame heat shrink oven - electric - rated at max 6 units/cycle	401 KAR 59:010
14. Rotor heat shrink oven 1.0 MMBTU/hour - rated at 12 units/cycle	401 KAR 59:010
15. Zinc phosphate line and water heater - 0.5 MMBTU/hour	401 KAR 59:010
16. Large frame heat shrink oven - electric - rated at 1 unit/hour	401 KAR 59:010

**SECTION C - INSIGNIFICANT ACTIVITIES (CONTINUED)****Continued:**

<u>Description</u>	<u>Generally Applicable Regulation</u>
17. Thermatron preheat oven - electric - rated at 1.5 units/hour	401 KAR 59:010
18. MOCO 400/500 rotor heat shrink oven - 1.2 MMBTU/hour	401 KAR 59:010
19. MOCO rotor preheat oven - 1.2 MMBTU/hour -	401 KAR 59:010
20. 2- baffel cutters - max 2 units per cutter per hour	401 KAR 59:010
21. Cooling towers as follows: 3-B 600 ton capacity, 1-A 600 ton capacity, 1-B 600 ton capacity, 3-A 225 ton capacity, 4-A 225 ton capacity, 4 - 200 ton capacity	401 KAR 59:010 or 401 KAR 63:010
22. Zinc phosphate dip tank - 10 % max - alkaline solution	401 KAR 63:010
23. Sprinkler system - water heater @ 0.68 MMBTU/hour	
24. Solder insert and connect - 8350 solder joints/day -	401 KAR 59:010
25. Miscellaneous natural gas use @ units less than 10 MMBTU/hour	401 KAR 59:015
26. 11 parts washers less than or equal to 40 gallons storage which do not use halogenated solvents	401 KAR 59:010
27. 2 parts washers (100 gallons storage and 180 gallons storage) which do not use halogenated solvents	401 KAR 59:010

## **SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS**

1. Particulate, volatile organic compounds, and visible (opacity) emissions as measured by methods referenced in Regulation 401 KAR 50:015, Section 1, shall not exceed the respective limitations specified herein.
2. To demonstrate compliance with the emission limitations, and requirements contained within this permit, the permittee shall record monthly throughputs, processing rates, and solvents, inhibitors, coatings, and thinners usage rates and recovery rates, including material/solvent/coating quantities used monthly and daily hours of operation, with any other corresponding information needed to determine emissions. The permittee shall calculate emissions based on the recorded information to assure compliance with the limitations within this permit including the daily and hourly standards.

## **SECTION E - SOURCE CONTROL EQUIPMENT OPERATING REQUIREMENTS**

1. Pursuant to Regulation 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any emissions unit including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

## **SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS**

1. When continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
  - a) Date, place as defined in this permit, and time of sampling or measurements;
  - b) Analyses performance dates;
  - c) Company or entity that performed analyses;
  - d) Analytical techniques or methods used;
  - e) Analyses results; and
  - f) Operating conditions during time of sampling or measurement.
2. Records, of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality.
3. In accordance with the requirements of Regulation 401 KAR 50:035, Permits, Section 7(2)(c), the permittee shall allow the Cabinet or authorized representatives to perform the following:
  - a) Enter upon the premises where a source is located or emissions-related activity is conducted, or where records are kept;
  - b) Have access to and copy, at reasonable times, any records required by the permit:
    - i) During normal office hours, and
    - ii) During periods of emergency when prompt access to records is essential to proper assessment by the Cabinet;
  - c) Inspect, at reasonable times, any facilities, equipment (including monitoring and pollution control equipment), practices, or operations required by the permit. Reasonable times shall include, but are not limited to the following:
    - i) During all hours of operation at the source,
    - ii) For all sources operated intermittently, during all hours of operation at the source and the hours between 8:00 a.m. and 4:30 p.m., Monday through Friday, excluding holidays, and
    - iii) During an emergency; and
  - d) Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements. Reasonable times shall include, but are not limited to the following:
    - i) During all hours of operation at the source,
    - ii) For all sources operated intermittently, during all hours of operation at the source and the hours between 8:00 a.m. and 4:30 p.m., Monday through Friday, excluding holidays, and
    - iii) During an emergency.
4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

**SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS (CONTINUED)**

5. Reports of any monitoring and any recordkeeping required by this permit, other than continuous emission or opacity monitors, shall be submitted to the Division's Owensboro Regional Office no later than the six-month anniversary date of this permit and every six months thereafter during the life of this permit, unless otherwise stated in this permit. Data from the continuous emission and opacity monitors shall be reported to the Technical Services Branch in accordance with the requirements of Regulation 401 KAR 59:005, General Provisions, and/or Regulation 401 KAR 61:005, General provisions. All reports shall be certified by a responsible official pursuant to Section 6 (1) of Regulation 401 KAR 50:035, Permits. All deviations from permit requirements shall be clearly identified in the reports.
6.
  - a) In accordance with the provisions of Regulation 401 KAR 50:055, Section 1, the owner or operator shall notify the Division for Air Quality's Owensboro Regional Office concerning startups, shutdowns, or malfunctions as follows:
    - i) When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
    - ii) When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall cause written notice upon request.
  - b) In accordance with the provisions of Regulation 401 KAR 50:035, Section 7(1)(e)2, the owner or operator shall promptly report deviations from permit requirements including those attributed to upset conditions to the Division for Air Quality's Owensboro Regional Office. Prompt reporting shall be defined as quarterly for any deviation related to emission standards (other than emission exceedances covered by condition 6(a) above) and semi-annually for all other deviations from the permit requirements if not otherwise specified in this permit.



## **SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS (CONTINUED)**

7. Pursuant to Regulation 401 KAR 50:035, Permits, Section 7(2)(b), the permittee shall certify compliance with the terms and conditions contained in this permit, annually on the permit issuance anniversary date by completing and returning a Compliance Certification Form (DEP 7007CC) (or an approved alternative) to the Division for Air Quality's Owensboro Regional Office and the U.S. EPA in accordance with the following requirements:
- a) Identification of each term or condition of the permit that is the basis of the certification;
  - b) The compliance status regarding each term or condition of the permit;
  - c) Whether compliance was continuous or intermittent;
  - d) The method used for determining the compliance status for the source, currently and over the reporting period, pursuant to Regulation 401 KAR 50:035, Section 7(1) (c), (d), and (e); and
  - e) The certification shall be postmarked by the thirtieth (30th) day following the applicable permit issuance anniversary date.

Annual compliance certifications should be mailed to the following addresses:

Division for Air Quality  
Owensboro Regional Office  
3032 Alvey Park Drive West - Suite 700  
Owensboro, Kentucky 42303-2191

U.S. EPA Region IV  
Air Enforcement Branch  
Atlanta Federal Center  
61 Forsyth Street  
Atlanta, Georgia 30303-8960

8. In accordance with Regulation 401 KAR 50:035, Section 23, the permittee shall provide the Division with all information necessary to determine its subject emissions within thirty (30) days of the date the KYEIS emissions report is mailed to the permittee.

## SECTION G - GENERAL CONDITIONS

### a) General Compliance Requirements

1. The permittee shall comply with all conditions of this permit. Noncompliance shall be (a) violation(s) of State Regulation 401 KAR 50:035, Permits, Section 7(3)(d) and for federally enforceable permits is also a violation of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) and is grounds for enforcement action including but not limited to the termination, revocation and reissuance, or revision of this permit.
2. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition.
3. This permit may be revised, revoked, reopened and reissued, or terminated for cause. The permit will be reopened for cause and revised accordingly under the following circumstances:
  - i) If additional applicable requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to Regulation 401 KAR 50:035, Section 12(2)(c);
  - ii) The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
  - iii) The Cabinet or the U. S. EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the Division may provide a shorter time period in the case of an emergency.
4. The permittee shall furnish to the Division, in writing, information that the Division may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. [401 KAR 50:035, Permits, Section 7(2)(b)3e and 401 KAR 50:035, Permits, Section 7(3)(j)]
5. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the permitting authority.

**SECTION G - GENERAL CONDITIONS (CONTINUED)**

6. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit. [401 KAR 50:035, Permits, Section 7(3)(k)]
7. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance. [401 KAR 50:035, Permits, Section 7(3)(e)]
8. Except as identified as state-origin requirements in this permit, all terms and conditions contained herein shall be enforceable by the United States Environmental Protection Agency and citizens of the United States.
9. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within ninety (90) days after the date of notice as specified in Regulation 401 KAR 50:038, Section 3(6). [401 KAR 50:035, Permits, Section 7(3)(h)]
10. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance. [401 KAR 50:035, Permits, Section 8(3)(b)]
11. This permit shall not convey property rights or exclusive privileges. [401 KAR 50:035, Permits, Section 7(3)(g)]
12. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Kentucky Cabinet for Natural Resources and Environmental Protection or any other federal, state, or local agency.
13. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry. [401 KAR 50:035, Permits, Section 7(2)(b)5]
14. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders. [401 KAR 50:035, Permits, Section 8(3)(a)]
15. Permit shield: Except as provided in State Regulation 401 KAR 50:035, Permits, compliance by the emissions units listed herein with the conditions of this permit shall be deemed compliance with all applicable requirements identified in this permit as of the date of issuance of this permit.
16. Fugitive emissions shall be controlled in accordance with Regulation 401 KAR 63:010.
17. Emission limitations listed in this permit shall apply at all times except during periods of startup, shutdown, or malfunctions in accordance with Regulation 401 KAR 50:055, as long as the permittee follows the requirements of Regulation 401 KAR 50:055.
18. All previously issued construction and operating permits are hereby null and void.

## **SECTION G - GENERAL CONDITIONS (CONTINUED)**

### **b) Permit Expiration and Reapplication Requirements**

This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six (6) months prior to the expiration date of the permit. Upon a timely and complete application submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division. [401 KAR 50:035, Permits, Section 12]

### **c) Permit Revisions**

1. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emissions trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the Kentucky State Implementation Plan or in applicable requirements and meet the relevant requirements of Regulation 401 KAR 50:035, Section 15.
2. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority thirty (30) days in advance of the transfer.

### **d) Acid Rain Program Requirements**

If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.

## **SECTION G - GENERAL CONDITIONS (CONTINUED)**

### **e) Emergency Provisions**

1. An emergency shall constitute an affirmative defense to an action brought for noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or other relevant evidence that:
  - i) An emergency occurred and the permittee can identify the cause of the emergency;
  - ii) The permitted facility was at the time being properly operated;
  - iii) During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and,
  - iv) The permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division within two working days after the time when emission limitations were exceeded due to the emergency. The notice shall meet the requirements of Regulation 401 KAR 50:035, Permits, Section 7(1)(e), and include a description of the emergency, steps taken to mitigate emissions, and the corrective actions taken. This requirement does not relieve the source of any other local, state or federal notification requirements.
2. Emergency conditions listed in General Condition (e)1., above, are in addition to any emergency or upset provision(s) contained in an applicable requirement.
3. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof.

### **f) Risk Management Provisions under CAA 112(r)**

1. The permittee shall comply with all applicable requirements of 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall:
  - a. Submit a Risk Management Plan to U.S. EPA, Region IV with a copy to this Division and comply with the Risk Management Program by June 21, 1999 or a later date specified by the U.S. EPA.
  - b. Submit additional relevant information if requested by the Division or U.S. EPA.

## **SECTION G - GENERAL CONDITIONS (CONTINUED)**

### **g) Ozone Depleting Substances**

1. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
  - a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
  - b. Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipments contained in 40 CFR 82.158.
  - c. Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
  - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined in 40 CFR 82.152) shall comply with the record keeping requirements pursuant to 40 CFR 82.166.
  - e. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
  - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.
2. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

## **SECTION H - ALTERNATE OPERATING SCENARIOS**

None

## **SECTION I - COMPLIANCE SCHEDULE**

None